

PTO/SB/21 (08-03)

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/672,878	
	Filing Date	September 26, 2003	
	First Named Inventor	Jennie P. MATHER	
	Art Unit	Not Yet Assigned	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in This Submission	7	Attorney Docket Number	415072000101

**ENCLOSURES (Check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement (3 pages) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): 1. Form PTO-1449 (3 pages) 2. Return Receipt postcard
<div>Remarks</div>		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	MORRISON & FOERSTER LLP (Customer No. 25226) Jie Zhou - 52,395
Signature	
Date	December 10, 2003

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PATENT  
Docket No. 415072000101

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*Martina Placid*

Martina Placid

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the application of:

Jennie P. MATHER et al.

Serial No.: 10/672,878

Filing Date: September 26, 2003

For: COMPOSITIONS AND METHODS FOR  
GENERATING MONOCLONAL  
ANTIBODIES REPRESENTATIVE OF  
A SPECIFIC CELL TYPE

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

**INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents were previously submitted in an Information Disclosure Statement and/or Office Action, directed to the related application Serial Number 09/218,539, filed on December 12, 1998 and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R.

§1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

This Information Disclosure Statement is submitted:

- ☐ With the application; accordingly, no fee or separate requirements are required.
- ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.
- ☒ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- ☐ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.
  - ☐ A fee is required. A check in the amount of \_\_ is enclosed.
  - ☐ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- ☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of \_\_ is enclosed.
  - ☐ A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

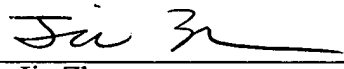
The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does

not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

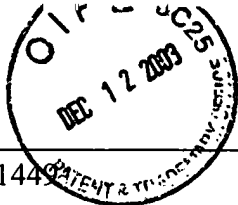
In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 415072000101. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: December 10, 2003

Respectfully submitted,

By:   
Jie Zhou  
Registration No. 52,395

Morrison & Foerster LLP  
755 Page Mill Road  
Palo Alto, California 94304-1018  
Telephone: (650) 813-5922  
Facsimile: (650) 494-0792



<b>Form PTO-1449</b> <b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>	Docket Number 415072000101	Application Number 10/672,878
	Applicant Jennie P. MATHER et al.	
	Filing Date September 26, 2003	Group Art Unit Not Yet Assigned
	Mailing Date December 10, 2003	

## U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	11/15/1994	5,364,785	Mather et al.			
	2.	02/03/1998	5,714,385	Mather et al.			
	3.	02/24/1998	5,721,139	Mather et al.			
	4.	08/03/1999	5,932,704	Jubinski			
	5.	12/21/1999	6,004,528	Bergstein			

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	6.	08/05/1998	EP 0 856 520 A1	Europe			

## OTHER DOCUMENTS

*(including author, title, Date, Pertinent Pages, Etc.)*

Examiner Initials	Ref. No.	Title
	7.	ANTIBODIES, A Laboratory Manual (Harlow and Lane, eds. 1988), Cold Spring Harbor Laboratories, pp. 148-149, 153-154, 196.
	8.	Barnes et al. (1980). "Method For Growth Of Cultured Cells In Serum-Free Medium," <i>Anal. Biochem.</i> 102:255-270.
	9.	Bergsagel et al. (1992). "A Murine cDNA Encodes a Pan-Epithelial Glycoprotein That Is Also Expressed On Plasma Cells," <i>J. Immunol.</i> 148:590-596.
	10.	Birnboim et al. (1979). "A Rapid Alkaline Extraction Procedure For Screening Recombinant Plasmid DNA," <i>Nucleic Acids Research</i> 7(6):1513-1523.
	11.	Botchan et al. (1976). "The Arrangement Of Simian Virus 40 Sequences In The DNA Of Transformed Cells," <i>Cell</i> 9:269-287.
	12.	Bouwens, L. (1998). "Cytokeratins And Cell Differentiation In The Pancreas," <i>J. Pathol.</i> 184:234-239.
	13.	Buck et al. (1982). "Monoclonal Antibodies Specific For Cell Culture Mycoplasmas," <i>In Vitro</i> 18:377-381.
	14.	Dayhoff et al. (1983). "Establishing Homologies In Protein Sequences," <i>Methods Enzymol.</i> 91:524-545.
	15.	Debas et al. (1997). "Molecular Insights Into The Development Of The Pancreas," <i>Am. J. Surg.</i> 174:227-231.

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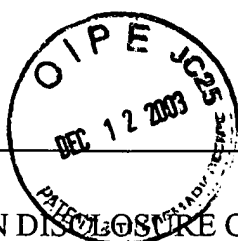
Form PTO-1449 <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>	Docket Number 415072000101	Application Number 10/672,878
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16.	Dotsikas, G. et al. (1987). "Cellular Heterogeneity In Normal And Neoplastic Human Urothelium: A Study Using Murine Monoclonal Antibodies," <i>British Journal of Cancer</i> 56(4):439-444.
17.	Gazdar et al. (1980). "Continuous, Clonal, Insulin- And Somatostatin-Secreting Cell Lines Established From A Transplantable Rat Islet Cell Tumor," <i>Proc. Natl. Acad. Sci.</i> 77(6):3519-3523.
18.	Githens et al. (1989). "Rat Pancreatic Interlobular Duct Epithelium: Isolation And Culture In Collagen Gel," <i>In Vitro Cellular &amp; Development Biology</i> 25(8):679-688.
19.	Ham, R.G. and McKeehan, W.L. (1979). "Media And Growth Requirements," <i>Meth.in Enz.</i> 58:44-93.
20.	Ham, R.G. (1981). "Survival And Growth Requirements On Nontransformed Cells," Chapter 2 <i>In Handbook of Experimental Pharmacology</i> . Vol. 57, pp. 13-88.
21.	Jessop et al. (1980). "Characteristics Of Two Rat Pancreatic Exocrine Cell Lines Derived From Transplantable Tumors," <i>In Vitro</i> 16(3):212, abstract no. 32.
22.	Kim et al. (1997). "Notochord To Endoderm Signaling Is Required For Pancreas Development," <i>Development</i> 124:4243-4252.
23.	Köhler et al. (1975). "Continuous Cultures Of Fused Cells Secreting Antibody Of Predefined Specificity," <i>Nature</i> 256:495-497.
24.	Lai et al. (1996). "Prostaglandin F <sub>2α</sub> Induces Cardiac Myocyte Hypertrophy In Vitro And Cardiac Growth In Vivo" <i>Am. J. Physiol.</i> 271(6): Part 2 of 3, H2197-H2208.
25.	Levi et al. (1997). "The Role Of Cultured Schwann Cell Grafts In The Repair Of Gaps Within The Peripheral Nervous System Of Primates," <i>Experimental Neurology</i> 143:25-36.
26.	Li et al. (1996). "Establishment Of Schwann Cell Lines From Normal Adult And Embryonic Rat Dorsal Root Ganglia," <i>J. Neurosci. Methods</i> 67:57-69.
27.	Li et al. (1996). "Identification Of Gas6 As A Growth Factor For Human Schwann Cells," <i>J. Neuroscience</i> 16(6):2012-2019.
28.	Li et al. (1996). "Multiple Factors Control The Proliferation And Differentiation Of Rat Early Embryonic (Day 9) Neuroepithelial Cells," <i>Endocrine</i> 5(2):205-217.
29.	Li et al. (1997). "Follicle-Stimulating Hormone Induces Terminal Differentiation In A Predifferentiated Rat Granulosa Cell Line (Rog)," <i>Endocrinology</i> 138(7):2648-2657.
30.	Linnenbach et al. (1989). "Sequence Investigation Of The Major Gastrointestinal Tumor-Associated Antigen Gene Family, Ga733," <i>Proc. Natl. Acad. Sc. USA</i> 86:27-31.
31.	Loo et al. (1989). "Serum-Free Mouse Embryo Cells: Growth Responses In Vitro," <i>J. Cell. Physiol.</i> 139:484-491.
32.	Mather et al. (1979). "The Use Of Hormone-Supplemented Serum-Free Media In Primary Cultures" <i>Exp. Cell. Physiol.</i> 124:215-221.
33.	Mather et al. (1982). "Culture Of Testicular Cells In Hormone-Supplemented Serum-Free Medium" <i>Annals of the New York Academy of Sciences</i> 383:44-68.
34.	Mather, Jennie P. et al., Introduction To Cell And Tissue Culture (1998) Table 8.2 at pages 138-139.
35.	Neumann et al. (1982). "Gene Transfer Into Mouse Lyoma Cells Electroporation In High Electric Fields," <i>EMBO J.</i> 1(7):841-845.
36.	Oi, V. and Herzenberg, L. (1979). "Immunoglobulin-Producing Hybrid Cell Lines" in <u>Selected Methods in Cellular Immunology</u> . B.B. Mishell and S.M. Shiigi eds., W.H. Freeman Pub.: San Francisco, pp.351-372.

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37.	Okabe, T. et al. (1984). "Monoclonal Antibodies To Surface Antigens Of Small Cell Carcinoma Of The Lung," <i>Cancer Research</i> 44(11):5273-5278.
38.	Roberts et al. (1990). "A Novel Epithelial Cell From Neonatal Rat Lung: Isolation And Differentiated Phenotype," <i>Am. J. Physiol.</i> 3:L415-L425.
39.	Roberts et al. (1992). "Characterization Of An Airway Epithelial Cell From Neonatal Rat" <i>Animal Cell Technology: Basic and Applied Aspects</i> , 335-343.
40.	Sanger et al. (1977). "DNA Sequencing With Chain-Terminating Inhibitors," <i>Proc. Natl. Acad. Sci</i> 74(12):5463-5467.
41.	Sato, G.H. et al. eds. (1982). <i>Growth of Cells in Hormonally Defined Media</i> . Cold Spring Harbor Press: New York, 10 pages (Table of Contents V-XIII).
42.	Stephan, J. P. et al. (August 1999). "Distribution And Function Of The Adhesion Molecule Ben During Rat Development," <i>Developmental Biology</i> 212(2):264-77.
43.	Stephan, J. P. et al. (December 1997). "Characterization Of Cell Surface Proteins Using Antibodies Raised To Antigens From Pancreatic Cell Lines," <i>37th Annual Meeting of the American Society for Cell Biology</i> ; Washington, D.C., USA; December 13-17. 8: 18 pages total. Abstract XP000906996 Included.
44.	Strnad et al. (1989). "Molecular Cloning And Characterization Of A Human Adenocarcinoma/Epithelial Cell Surface Antigen Complementary DNA," <i>Cancer Res.</i> 49:314-317.
45.	Teitelman et al. (1987). "Cell Lineage Analysis Of Pancreatic Islet Cell Development: Glucagon And Insulin Cells Arise From Catecholaminergic Precursors Present In The Pancreatic Duct," <i>Dev. Biol.</i> 121:454-461, 463-466.
46.	Watada et al. (1996). "Pdx-1 Induces Insulin And Glucokinase Gene Expressions In $\alpha$ Tc1 Clone 6 Cells In The Presence Of Betacellulin," <i>Diabetes</i> 45:1826-1831.

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